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May 24, 1999

Dockets Management Branch Food and Drug Administration 5630 Fishers Lane Room 1061 (HFA-305) Rockville, Maryland 20852

Re: Citizen Petition Relating to Standards and Procedures for Patient

Registries for Clozapine

Dear Sir or Madam:

Zenith Goldline Pharmaceuticals submits this petition under section 505(j) of the Federal Food, Drug, and Cosmetic Act (FDC Act), and 21 C.F.R. §§ 10.25 and 10.30 of the regulations, to request that the Commissioner of Food and Drugs refrain from approving abbreviated new drug applications (ANDAs) for clozapine until the Food and Drug Administration (FDA) develops standards and procedures for patient registries. As determined by FDA, patient registries are necessary to assure the safe use of clozapine. Without FDA standards and procedures governing patient registries, patients treated with clozapine may be placed at increased risk of agranulocytosis, a potentially lethal condition. Informal arrangements among marketers of clozapine products, developed after approval has been granted, cannot continue to be relied on to provide the patient protection required as a condition of making clozapine safely available to treat patients. With the approval of multiple generic clozapine ANDAs, the failure to establish formal guidelines for clozapine patient registries may significantly impact patient safety because

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the proliferation of patient registries will confuse health care providers due to the variation in operating system, levels of internal control and safeguards.

Action Requested

This petition requests that FDA institute a public proceeding to formally develop minimum standards and procedures for clozapine patient registries. The petition also requests that FDA refrain from approving any ANDAs for clozapine until such standards and procedures have been proposed in the Federal Register.

A. Statement of Grounds

1. Clozapine indication and side effects

First approved for use in the United States in 1989, clozapine is indicated for the management of severely ill schizophrenic patients who fail to respond adequately to standard antipsychotic drug treatment. As described in the Zenith Goldline package insert attached as Appendix A, clozapine has serious side effects, including the significant risk of agranulocytosis¹ and seizure. Therefore, clozapine is only indicated for use in patients for whom appropriate courses of standard antipsychotic drugs have either been ineffective or have caused intolerable side effects. Although not a common adverse reaction (1.3% in clinical trials), agranulocytosis can be fatal. There are no established risk factors for clozapine-induced agranulocytosis. Accordingly, monitoring for the

¹ Agranulocytosis is a potentially life threatening condition defined in the Zenith Goldline package insert as an absolute neutrophil count (ANC) of less than 500/mm³.

effects of bone marrow suppression — reduced white blood cell (WBC) counts — is the only means for early detection of this adverse reaction.

2. Clozapine labeling and patient registry

The labeling for clozapine contains emphatic warnings about the risk of clozapine-induced agranulocytosis and a detailed protocol for monitoring WBC counts to detect its possible onset. Monitoring intervals range from daily to biweekly, depending on the results of WBC testing. If the WBC count falls below a threshold of 3500/mm³, or drops by a substantial amount from baseline, clozapine treatment may continue but with increased monitoring. If the WBC count falls below 3000/mm³, clozapine treatment is interrupted, daily WBC monitoring is instituted, and treatment is resumed only if the WBC count returns to 3500/mm³. If the WBC count falls below 2000/mm³, clozapine treatment is terminated, and may not be resumed. Required WBC monitoring continues for four weeks after discontinuation of clozapine therapy for any reason.

The risks associated with developing fatal agranulocytosis can be decreased when the product is prescribed in accordance with the package insert and patients are monitored through a patient registry. Novartis, the sponsor of the NDA for Clozaril brand of clozapine, in consultation with FDA, developed a patient registry system to reinforce the product labeling. As currently constituted, the system provides for:

 Availability of clozapine only through audited physicians and pharmacists.

- Agreement by enrollees to adhere to the WBC monitoring protocol.
- Dispensing of clozapine only if WBC test results are presented to the pharmacist and only if the patient is not listed in the non-rechallenge masterfile.
- Submission of WBC test results and clozapine dispensing information to the patient registry.
- Maintenance of a non-rechallenge masterfile.

In addition to these essentially mandatory elements of the patient registry system, both current registries also audit the information submitted for each patient to confirm that prescription and dispensing of clozapine accord with the labeled protocol. If a discrepancy is identified, a registry employee contacts the physician and pharmacist to resolve it. Thus, although the health care providers are primarily responsible for assuring that the results of WBC monitoring are translated into appropriate drug treatment decisions, this auditing function carried out by a clozapine patient registry enhances the health care providers' ability to manage their patients.

3. Coordination of patient registries

Zenith Goldline's ANDA for clozapine was approved in November 1997. Prior to the approval, Zenith Goldline worked closely with FDA to develop a clozapine patient registry that would provide the same safety features as the Novartis registry. Zenith Goldline recognized the need for interactions between its patient registry and that

maintained by Novartis and requested that FDA facilitate communications on this issue. Novartis, which was initially uncooperative with Zenith and FDA, sought to delay addressing the issue of coordinated patient registries. However, subsequent to the approval of Zenith's clozapine, FDA ordered a joint meeting with representatives of Zenith Goldline and Novartis to coordinate the standards and procedures for the two companies' clozapine patient registries. This joint meeting addressed a number of issues as set out below.

a. Non-rechallenge masterfile. The non-rechallenge masterfile is a confidential file which contains the identities of all patients who developed clozapine induced WBC counts below 2000/mm³. These patients are at high risk of agranulocytosis from clozapine, especially upon resumption of clozapine exposure after discontinuation. Accordingly, clozapine may not be dispensed to a patient listed in the non-rechallenge masterfile. Compliance with this prohibition is assured by the requirement that the health care provider must obtain an eligibility code from the patient registry for any patient new to the provider.

At the joint meeting with FDA, it was decided that Novartis would maintain the non-rechallenge masterfile. Zenith Goldline would query the masterfile as part of issuing an eligibility code for a patient for whom Zenith Goldline clozapine was prescribed. Zenith Goldline would also provide, for inclusion in the masterfile, the identities of patients who acquired non-rechallenge status while being treated with Zenith Goldline clozapine.

b. At-risk patients. A second function of the patient registry system that warranted specific attention was the ability of the system to help safeguard atrisk patients, i.e., patients with declining or marginal blood counts. This function of the patient registry depends on the ability of the patient registries to provide information on patients in order to enhance the decision making ability of the clinician. The health care provider (physician or pharmacist) may seek information from the patient registries in order to obtain a patient's full clozapine history. Subsequently, the health care provider would reconcile the data from the patient registries for review.

Complete information can be critical if the patient's WBC count is being closely tracked due to the clozapine protocol requirements. Although the health care providers to the patient have primary responsibility for determining a patient's relevant treatment history from customary sources, the clozapine patient registries provide a valuable safeguard. Not only do the patient registries serve as a repository of WBC data on a patient, they also permit registry employees to audit the results of monitoring and to communicate advisory information to health care providers.

Failure of individual company patient registries to provide information, reliably and expeditiously, would undermine the patient registry system's safeguard function.

Worse, it could increase the risk to patients because health care providers rely on the patient registry information in preference to using other sources of patient treatment history.

At the joint meeting, FDA concluded that the companies would manage this function of the patient registries without specific guidance from the agency. Informally, the companies agreed that the reciprocal exchange of information regarding the three most recent WBC counts for all registered patients would support the safeguard function of the patient registries and minimize the risk of inadvertent deviation from the clozapine dosing protocol.

4. Experience with Zenith Goldline/Novartis arrangement.

Zenith Goldline and Novartis have successfully operated the two patient registries to achieve the objectives of the clozapine patient registration system — adherence to the clozapine labeling protocol, avoidance of inappropriate clozapine administration, and, generally, safe use of clozapine as an important treatment for seriously ill patients who could not be adequately treated without it.

5. Need for explicit standards and procedures. The success of the coordinated patient registry system has been due in part to the fact that only two companies currently market clozapine. The addition of other patient registries has the potential to jeopardize patient safety unless FDA develops explicit requirements for all companies that sell clozapine. The likely result of continued reliance on informal arrangements, developed ad hoc after the approval of each ANDA, will be a progressive erosion in the reliability of the clozapine patient registry system.

The current informal arrangement works for several reasons. First, health care providers know that, at this time, only Novartis and Zenith Goldline sell clozapine and operate patient registries. It is not difficult to avoid making paperwork mistakes when only two systems are operating. It will become more difficult to avoid such mistakes as the systems proliferate, with more forms, more phone numbers, and more addresses added to information providers must keep track of.

Second, the current arrangement works because the registries themselves can correct provider mistakes. Now, if Zenith Goldline receives information about a patient not in its patient registry, the registry employee can forward it to the Novartis patient registry, and vice versa. With more registries, the ability to nullify paperwork errors in this simple way will be degraded with each new entrant, to the point where it will disappear altogether. Zenith Goldline has documented several tracking errors by health care providers where information that should have been provided to Novartis was in fact given to Zenith Goldline. This confusion reduced the time Novartis had to react to the situation. As the number of patient registries increases, these incidents will increase because physicians, pharmacists and even the patient registries may be confused over which clozapine patient registry holds a particular patient's information. This inability to reconcile paperwork errors will lead to a lack of meaningful WBC count monitoring and therefore increase patient risk.

A failure by the clozapine patient registry system as a whole thus becomes more likely as it becomes fragmented among more and more individual clozapine

manufacturers. It is obviously not possible for Zenith Goldline to demonstrate, with empirical data, that this process will have concrete adverse results at any particular time, or with the approval of one additional clozapine ANDA, as opposed to two or three. Nor is there a necessity to make that kind of showing. It is self-evident that the potential for systems errors increases with the number of organizational units that are required to communicate and coordinate with each other, and the number of different parallel communications systems available for customers to use.

The consequences of a breakdown in the clozapine patient registry system may be manifested in a variety of ways. A worst case scenario is a rechallenge with clozapine of patients who should not receive the drug. This could occur due to failed reporting to the non-rechallenge master file or, even more likely, through failure to identify a declining WBC count due to either inadequate WBC monitoring or fragmented patient histories spread across three or more patient registries. These consequences are serious, but they can be avoided through the issuance of clozapine patient registry guidelines by FDA.

Informal arrangements can be reached among Zenith Goldline and Novartis, on the one hand, and subsequent entrants on the other, as was done when Zenith Goldline obtained approval to market clozapine. But neither FDA nor Zenith Goldline can predict whether those arrangements will work in practice. Informal arrangements among drug sponsors are subject to inconsistent interpretations, different levels of organizational commitment, and other forms of unreliability. These informal arrangements are not an appropriate means of addressing issues of drug risk in a situation where the agency has

determined that the patient risk is sufficiently grave to require a patient registry to reduce the risk. If informal arrangements were adequate in such circumstances, many FDA regulations and guidelines could be dispensed with. Regulations and guidelines are necessary to establish explicit, uniform FDA standards that regulated entities can identify, and be held to by the agency. Such standards should be in place for clozapine patient registries prior to the approval of any additional ANDAs for clozapine.

Administrative Procedure Act to issue guidelines governing the clozapine patient registries. Under the FDC Act, it has the authority to issue regulations necessary for the efficient enforcement of the statute. 21 U.S.C. § 371(a). Therefore, FDA has a legal basis for issuing either guidelines or regulations establishing standards and procedures for clozapine patient registries required by approvals under 21 U.S.C. § 355. Zenith Goldline believes that such standards and procedures should be in the form of guidelines, rather than regulations. The guidelines should be developed in accordance with FDA's good guidance practices.

FDA has authority not to approve ANDAs for clozapine until such guidelines are in place. Under the FDC Act, an ANDA for clozapine must contain labeling that states that "clozapine is available only through a distribution system that ensures monitoring of WBC counts according to the schedule described below . . ." 21 U.S.C.§ 355(j)(2)(A)(v). In addition, the ANDA must contain information showing that the conditions of use for the proposed ANDA drug have previously been approved. 21 U.S.C. § 355(j)(2)(A)(i).

Without resolution of the issues raised by Zenith Goldline, the labeling for a third or subsequent clozapine product could not accurately represent that clozapine is available through a distribution system that "ensures" WBC monitoring in accordance with the labeling protocol. The addition of a third or subsequent clozapine product would threaten to undermine the patient registry system, which is an integral part of the distribution system, to a sufficiently serious extent that the word "ensures" would no longer be an accurate description. Moreover, whereas the conditions of use of Novartis's clozapine product as approved in the NDA were applicable to the Zenith Goldline ANDA for clozapine, the conditions proposed for a third or subsequent clozapine ANDA will, for the reasons explained, be fundamentally different as a result of those approvals.

Consequently, the conditions of use for a proposed third or subsequent clozapine ANDA will not have been previously approved in the Novartis NDA for Clozaril.

B. Environmental Impact

A claim for categorical exclusion of the requirements for Environmental Assessment is made pursuant to 21 C.F.R. § 25.31(a) and (i).

C. Economic Impact

Provided on request.

D. Certification

The undersigned certifies that, to the best knowledge and belief of the undersigned, this petition includes all information and views on which the petition relies,

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and that it includes representative data and information known to the petitioner which are unfavorable to the petition.

Sincerely,

Zenith Goldline Pharmaceuticals, Inc.

Eric M. Mittleberg Ph.D.

Vice President-Scientific Affairs

APPENDIX A

Clozapine Package Insert

CLOZAPINE TABLETS Rx only

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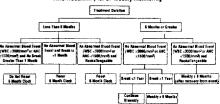
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Treatment-Emergent Adverse Experience Incidence Among Patients Taking Clozapine in Clinical Triats (N=842) (Percentage of Patients Reporting)

Advarse Eventa	Percent
Central Nervous System	
Drowsiness/Sedation	39
Dizziness/Vertigo	īğ
Headache	i
Tremor	6
Syncope	6
Disturbed sleep/Nightmares	4
Resflessness	4
Hypokinesia/Akinesia	4
Agitation	4.
Seizures (convulsions)	30
Rigidity	3
Akathisia	3
Confusion	3
Fatigue Insomnia	3
Hyperkinesia	2
Weakness	7-66 4 4 4 4 4 3 3 3 3 3 2 2 2 1 1
Lethargy	
Alaxia	
Sturred speech	- 1
Depression	- 1
Epilept-form movements/Myoclonic jerks	i
Anxiety	i
Cardioyascular	
Tachycardia	250
Hypotension	
Hypertension	9
Chest pain/Angina	1
ECG change/Cardiac abnormality	1
Gastrointestinal	
Constipation	14
Nausea	5
Abdominal discomfort/Heartburn	4
Nausea/Vomiting	3
Vomiting Diarrhea	5 4 3 3 2
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Liver test abnormality	
Anorexia	- 1
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Musculoskeleta! Muscle weakness Pain (back, neck, legs) Muscle spasm Muscle pain: ache	
Respiratory Throat discomforf Dyspnea, shortness of breath Nasal congestion	1
Hemic/Lymphatic Leukopenia/Decreased WBC/Neutr∋penia Agranulocytosis Eosinophilia	3 1b
Miscellaneous Fever Weight gain Tongue numb/sore	5 4 1

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MANUFACTURED BY ZENITH GOLDLINE PHARMACEUTICALS, INC. MIAMI, FL. 33137

CLOZAPINE TABLETS

